Ans July 9th
Ans July 13

Athens Ills July 8th 1867

Dr Engelman

I am in receipt of sheets (I suppose from you) of the new Edition of Grays manual in which I find elaborated by you Juncus & Isoetes — thanks I shall soon now set about getting for you Lat Juncus brachycarpus in plenty Isoetes melanopoda is finely developing this year & what I did not expect find the leaves yet green though the plants have been out of the water 6 or 7 weeks I think they have very good spores now & I shall soon secure a good lot I hope you can spare me good specimens of American Isoetes some time particularly those pacific Stats species I have & can get from Mr. Leanby all published in the manual but I. acerrimus. The varieties of echinospo

P. Engelmanii I should like to
see genuine however from you
I can send you as much
melanopoda as you can use
in exchange

Respectfully
E. Hall

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I hear Dr Parry is out
again on the Plains with
a Rail Road Survey party
do you correspond?
Can't you persuade him to
get a lot of the seeds of
Marsilia - they can be grown
here doubtless it grows in
almost dry ground out there
& probably would not need water
at all here - Respectfully E. Hall

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Rec'd Aug 27
Ans same day

my dear Mr Hall

Athens Ill.

There are the plants I have for you — poor but the best I could do - the dry season & heat destroys the lower leaves before the seeds are mature Collected July 4 & 20 Some of the peculiar plants with which it grows are the Carex, Stramin. pertenuis. Verbenordea Cephalophora?. Scleria triglomerata Zatria pycnostachya. Cornus paniculata Lysimachia lanceolata Isoetes melanopoda. Cephalanthus Occidentalis. Quercus imbricaria &c &c I send all ~~the grass~~ all the Isoetes I have did not get it till Jean in time it very suddenly went down & before I was aware the tops were mostly dead The large black unpressed specimens

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Collected this year

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I also put in a little Lemna for you to look at — Samples of all I have — You keeping have extraordinary Success in discovery to find wolffia here..

You did not send me European Isoetes yet — but I can wait Your own good time — till you have your Genera ready

In haste your Ever

E. Hall

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Rec'd Sept 10th
Ans same day

Athens Ill. Sept 9th 1867

Dr Engelman

Your 27th ult was duly rec'd with the specimens with which I was much pleased. I have since been out for Zemnas & have found in vast quantity what I suppose is your Wolfia Columbiana on a large perennial Ceratophyllum pond where bushels might be collected. I enclose specimens. is not Zemna perpusilla also with the Z. polyrhiza with it or is it minor. I also enclose all the Z minor I have with which you found young fr. Some where with my mosses. I believe I have Z minor in mature fr. I will look it up & send you this winter. Collected after dead in november. Several years ago. Also the budding Z polyrhiza which are curious. I enclose or something else.

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I also found for the first time near here Quercus palustris in fine for on the banks of this same Malfia pond

Juncus tenuis - tar se - grows in dry ground in timber not in wet places. but still another slender long variety does grow in swampy places with few heads

Shall be very glad to get the Arizona seeds & Zemna pulchella in mature fruit when you get it

Ever yours

E Hall

Became pressed & dried up

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Ans Sept 17
Ans — /22

Athens Ill Sept 15th 1867

Dear Engleman
Yours of 11th is at hand
Am glad you are interested
I heard with the wolves
The pond is 5 miles distant on
the Springfield road where I
expect to go this week & if the
team can be prevailed on to stop
15 minutes for me I will get
you a quart & send by express.
it will reach you the same night
I believe & you will get it in
before it decays if you are on
the watch look for it Wednesday
morning. I can not promise it
sure I. because few business men
can see their things as we do & the
team may not wait on me
to get it but I will do my best
look for Kirt & Lemma & all together
& know all is done in great haste

As you are interested in
looking for small obscure things
I send you 2 Species of something
that may not be Conferva
very pretty. the Plains Species
I regret not being on hard paper
but was the best I had at hand on
that memorable Rocky Mountain
expedition that might have
been much more fruitful
in results of smaller things

Ever

E Hall

I did <u>not</u> get the Fivetepa
you sent me last winter
and am very sorry, too
strange where it could have
went

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Ans = Oct 1
Ans Oct 6

Athens Ga. Sept 27th 1862

Dear Sir

Your acknowledging the receipt of Wolfe's
Pine & am glad you got them safe
and when I contracted, in great
haste from several parties in the
Pond so as to get the Specimens
which I supposed Solid. it is in that
and in most precautious moving the
Surplus covered I should think a
thousand bushels a low estimate
with the Conversion
Here is a leaf of the Jamaica Pine
(1)
European
Quercus hystrix DC. var subinermis
" Catesæa Walter
" tomentosa Poir
" coccinea Wang
" tinctoria
" Durandii Oerst
" Pennsylvanica Willdenow - want letter

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Sweets, Velvets, Alex Vraeen
no spores can't tell

Answer

1 Sweets Valida Ewel very good
2 " Saccharata (Poor want spores) Lanker
3 " echinostrora & Lacustris from you
4 " Engelmanii from Delaware
6 " riparia from Delaware
No. 2 3 & 4 & 5. from the west
I want more & better of them
have plenty
Of Mr Seleri I have only 1 vestita
& quadripolia — not

The "Somethings" I sent you in
letter is not a moss. neither
of them they doubtless belong to the
Algae & probably of the Conjuga-
division but I know nothing about
them

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Did you send last write the Secretary to me by express or mail? - Sometimes my express matters goes to Petersburg when not specially directed & the office there is so defective of duty that I have to hunt often to find it they never give me notice of the receipt of any thing. & the package may have gone there & yet be there if you sent by express.

I have suffered serious loss by retention of perishable goods already that year from them. I always order when practicable things sent to Springfield.

Your friend
E. Hale.

Will you be at our State fair next week. I expect to be Tuesday Wednesday & probably Thursday

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WWH: 3

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Recd Dec 31st
Ans Jan 1st

Athens Ill. Dec 21st 1867

Dr Engelman

I am just in receipt of your favor of 19th. I enclose you grapes-seeds as I have them - I will also say a few words about grapes here &c & in my herb. Labrusca I do not find. Aestivalis is rather common & variable as you say. a remarkable location for it here is in a pond upland opening over the button bushes. where water often stands through the year & always till July. V. Cordifolia is abundant in upland as well as Bevin bottoms. & probably limited is not to say variable. but a third species I cannot refer to any described in the manual - In my earlier botanical days I referred it to Labrusca. but when I rec'd that species from the east. I supposed it must belong to Cordifolia or vulpina - but I now suspect it to be a distinct species intermediate as to foliage between Cordifolia & Labrusca. the berries are the size of Cordifolia or smaller & like. that sp not ripe till winter and very acerb I enclose you a small leaf of the fer. the leaves are

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obscurely 3 lobed or entire with blunt mucronate
almost serrate teeth in some specimens deeply cordate & often
V often have elevated teeth
the veins nearly closed by the over lapping — down
always tomentose as you see through the leaf
Bolanders leaf specimen I now have
is medium size as to leaf densely tomentose
beneath less so above with matted longer
woolly pubescence — Leaf specimen of
V californica from Maryland only — Vitis
Cordifolia from Brazill Green of Renn
in fl with wide spreading perfect inflorescence
on very short 8" peduncles leaves quite
smooth & shining both sides obscurely 3 lobed &
sharp toothed. V vulpina again from Renn
has almost equally forked inflorescence with
the peduncle on which long leaf similar only
tomentose beneath on the veins of ports & slightly
so above. Another remarkable grape
I found on the Missouri River about 110
miles above St Louis in 1862. I sent a
specimen to Dr Gray who said Cordifolia
but the fruit was creamy white & insipid
not acid at all. I have one specimen left
I enclose you two seeds. The foliage almost

truncate at the base is rounded. pointed
& irregularly toothed but not lobed
hairs on the vein beneath & above distinct
not veiled. Peduncles long 3 inches
the branches decompound but apparently very short
probably as wide as long — It is possible there may
be no more than a ver. of Cordifolia with
divaricated fr — Yet the fruit looked healthy
and I was sanguine at the time that I had
a new Species (new to me) and still think
it a remarkable grape & should be looked
further after. I trust you will
not pass this by as a grape story but will
make some effort the coming season to send by
the boats for fruiting specimens all along that
river in October or September at the various
wood yards at some of them I found it on the
north side of the river — and talking of grape
stories it will be needless for me to tell you that
plenty of such things are current only last year
an old family intelligent man — a good Christian
methodist friend assured me positively he gathered
as good & large grapes in the first settling of

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this County on a certain creek a few miles from here as I was now raising Catawbas Isabellas &c – that they was sweet & delicious & large as our cultivated grapes

Next year I will help you further with the grapes and as to Sh. or you there is no question about the quality of the indigenous fruit of Australis at least as to size as well as acidity and some remarkably fine plant of Australis must have furnished my friends with his sweet grapes 30 years ago

Wolffia Columbiana & Brazeliana are all one to me I have no microscope

Glad to have the name of the Plain Algae Could the other not be determined?

A little hand lens I have helps me to see the beauty of things much

Respectfully Yours
E Hale

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Rec'd Jan 15
Ans Febr 1

Athens Ill Jan 13th 1868

Dear Engelman

Yours rec'd

I send to day by mail the grape leaves & a leaf enclosed of what I call Cordifolia but not from the same vine as the seeds

Yes that Missouri River grape is sure enough V. indivisa which I ought to have known my self but I was not expecting that Southern St. So far as — not having acid & being native. So far north would it not be a good St. to hybridize good Cultivated tender kinds with? Your provisionally Caneseens Tormentella is certainly constitutionally at least far removed from aestivalis but critical Study will tell it is a writers grape like Cordifolia

Does Parry send your seeds? Could he be induced to get the seeds of Lemisia

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Vedrica whilst in California? Is he paid by a rail road Company or the government in this exploration = Pity he does not have more industry & better improve his valuable opportunities = but then alas for explorers with too much zeal. Their lives are too often sacrificed with over exertion & it is fortunate for Dr Parry that he has learned so well that self preservation is of the first & paramount importance

Ever E Hall

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Rec'd Cambridge April 21

Athens Ill. April 12th 1868

Dear Engelman

Your letter and package of plants containing the very valuable Junci & also Isoetes of 2 or 3 species new to my collection and other fine sp & 2 Marsilea, are very fine both new & most interesting. The Arizona seeds I did not find.

I cannot sufficiently thank you for the invaluable Junci publication - which it probably leaves little for future investigation being so full in sp & var. yet I hope it will not have the effect of laying this this interesting genus on the shelf as completed in this country - Only the first portion of their publication in the St Louis transactions have come to me I should have asked you before only that I expected the descriptive work

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to accompany the Specimens — I hope
some time to get ~~them~~ but
will not — not now trouble
you —
I hope your European sojourn
will be both pleasant & profitable
that you will have a safe return
at the long date you have fixed
& be again ready & willing to aid
as heretofore so liberally in the investiga
of American botany those inexperienced
devotees of the Science to whom your
humble correspondent belongs
and who wishes to here acknowledge
many kind favors & much assistance
in the determination of American plants.

If your friend who wants American
dried plants for European sale writes
me on the subject I have no
doubt but that an arrangement
can be made for their collection
& safe forwarding Yours &c E Hall

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Rec'd Sept 27th Athens Ill. Sept 25th 1865
ans Oct 25th

Dear Engelmann

2 letters from you are now at hand. Thanks for seeds of Solanum citrullifolium. My fences are backsliden all right. I leave them as you have them till they are all settled when I hope you will send me your final determinations. I send you all the Euphorbia polydon I could get. the west wind has destroyed my plants I fear before the seed is fully mature - ing he it will now but next be some this fall - a partial least. I have saved you a good specimen of Bouchloe with both kinds of fls from the same tuft - it is still fruiting. Corner - I have your paper on it. I see you have it right. I was under the impression though that you had it dioecious altogether. A mistake of bad recollection - I have been looking after Isoetes melanopoda yesterday

Perhaps my surprise in finding it in the water 6 inches high just as I find it in May — new plants entirely the old stems & shoots all rotted away, in fact our wet season has turned (so to speak) September into May) not only plants but animals — frogs in particular are in high process of breeding & in prodigious croaking. I imagine that the helpless tadpoles & poor newts will suffer soon but as yet everything is like midsummer Have you cornus florida near you Could you conveniently get me some ripe seed this fall? I want to grow it — be at no pains to get it if not entirely convenient & handy —

Ever yours

E Hall

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I will get more of the green threaded Francus next year as you request — perennial. bulbous roots remain & stocks rotted

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Rec'd Jan 18

Oxford Ga Jan 14th 1870

Dear Doctor Jan 7th ci
Rec'd glad to hear from you again — that you are getting fixed up to have things comfortable & convenient well. I hope you may have many days yet to enjoy our noble Science —
I took a hunted trip in Kansas last Sept & picked up a few things new to me — and I to day send you Spec. of them for determination when you have time to look at them. a few also from else where — I wish to examine particularly the Andropogon, Dr Parry insists on its being A argenteus, or recently A Elliottii

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both I suppose synonym of the same plant but this is so different in general habit from that of S., as I have it from the east that I am slow to give it up. I am engaged now with the mosses which with the aid of Prof. Lesquereux & Mrs. Rowlee American gives me great pleasure. That is a great work of his & must have cost him an immense labor & years of time.

The Euphorbia I send from Kansas is quite common on the rocky hills of ~~both~~ Kansas & western Missouri but it is entirely new to me. I also found in S~~outhern~~ Kansas E. glyptosperma & Froelichia gracilis. Manilkaria rivularis 10 miles west of Fort Scott on flat rocks with little soil — I brought a lot

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home with roots & seeds of
many other plants that I have
to grow here
When you start your botanical
garden may be I can help
you with some things wanted
will be glad to do so
The Cuscuta bits from Bourbon
Co Kansas grows on weeds on
dry rocky places — the species is
special I failed to notice — I was
so much hurried by the party I
was with that I was unable to
much or anything well. none
of them having any sympathy
for a (plant hunter) I wish
to call your attention to its long
styles differing from any thing I have
seen from California are from
Boulder
Respectfully Yours E. Hall

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Rec'd Sept. 8
Ans. Sept. 10

Athens Ill. Sept 6th 1870

Dear Engelmann

Yours of some weeks ago enclosing leaves of hybrid oaks was rec'd on the eve of departure for a tour with a party of land hunters through Missouri & Kansas. I I expected to call on you when in St Louis. but arriving there at night fall & leaving at day light next morning I was deprived of the privelege I had considerable stock in the expedition & held it a little slow and was enabled to pick up a little botanical material chiefly lichens & mosses - but also a respectable bundle of Phenogams I enclose you a Juncus (two old) so different from anything in your Juncorum EA) that I am

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led to think it may be new to you ~~possibly some new form of Condensa~~ I find it in Vernon Co Mo & west ward in Kansas on banks of rivulets. ran I can send you more of it if desired. Please let me know where you place it – also I have some other forms of Grenei that I may have to ask aid in locating & some other things for winter study but now too busy to attend to them ~~things~~ –

I responded to letter from Mr Perkins & mentioned 5 or 6 Spe of Cacti I could send him but he has not as yet responded that Opuntia with not dry for common in M, O, & Kan, & not O. Rafinesquii is I suppose a form of O. Missouriensis. The most numerous in all that region much more plentiful than O. Rafinesquii

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Shall be glad to hear from
my last writes parcel when
you have time & find it
convenient — in no haste

Ever yours —

E Hall

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Rec'd Sept 20 Asphodelus (Asphodel)

Athens Ill. Sept 18th 1870

Dear Engelman

Your of 10th is Rec'd - Thanks for finding the Gincen I could not have suspected it to be of common percentage with the J. acuminatus I get there. but the numerous Specimens of that Spec in your Gencinan show some gradations in its direction - but it must be conceded to be the most distinct of all the varieties - I have now only about half dozen Specimens and all I found at 2 localities & of course could not now furnish you for another Edition - but if I am ever again so situated as to get it in quantity will most certainly supply you with pleasure - I cannot now tell you how I distinguish the prevailing west M.O. Kansas Opuntia from Rafinesquii the frounds are globular. yellowish green. more spiny the fruit obtuse. more oval in figure but not spiny - & not dry as I think at any stage I enclose you a wasted frond that I brought home for planting but it wooned die on the road - I have however a Dozen Young

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plants varied from last year seed
If you want to grow it will send you
some in Spring. My O Missouriensis
does not fruit this year
Manicellaria grows well both from the
Mt & Kansas the first now large stools. the
seeds ripen annually in autumn. are then
distinguished readily from the almost similar
plant tits (or what ever you call them) by
their purple color each containing 4 or more
black seeds. that appear above ground when
growth starts as scarcely larger purple buds than
the seeds themselves. but they survive well & resist
all kinds of weather the only danger is from
drawing out in winter
But I have been puzzled & yet am to find
the seeds of Echinacea Simpsoni. it flowers
freely every year but I cannot find the
seed at all yet the young plants are
coming up about the base of the old stock
chiefly attached to the earth adhering to the base
of the mother plant I at first mistook them
for buds - but examination shows them to be
seedling plants. & I am led to think the fruit must
be internal. & yearly descends untill by the

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growth of the plant it reaches the earth & only then germinates — but I do not say this from observation - & it claims no credence as yet of course I shall be glad to get seeds of Manicellera Nuttallii & will do my level best to grow them

You say the Akin Question has occupied you &c & that the only one from the Rocky Mts. in Colorado to Utah that you have seen is a form of grandis — where now do you class A. Douglasii & A. Menziesii? — I believe I sent you also A. grandis from Georgetown pass if not I can get.

You say tho you recollect well that the Euphorbia I sent you last winter was E. petaloidea Now when I first met the plant on a dry rocky hill in Bates Co Mo. last year I did not dream even that it could be the plant you called E. petaloidea from Denver & the sandy plains thereabouts — my first impression was that it was a depauperate E. hypericifolia and was only convinced that it was a different species after finding it with larger growth in other localities my present belief is that both are not the same I have grown the Denver plant seeds & this year the Kansas plant

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& saw both frequently in native habitats and as far as general appearance & habit go no botanist would or could put them together. The Denver plant is always decum-bent & yellowish green in color & widely spreading. The Kansas plant erect or habited like E. hypericifolia in this respect is always glaucous or bluish green in color & at least in cultivation has some serration on its leaves in part - the leaves relatively narrower & longer. & as to character of value the petal like appendages ~~are~~ are ovate lanceolate acum-inate. & differently disposed, all directed to the side whilst the Denver plant has them more erecting arranged round & differently shaped being ovate orbicular & not pointed - & the seeds of both species (I enclose) showing the Kansas plant larger & roughened under a lens whilst the Denver plant has them smooth & shining like E. Jeyeri. which I also enclose for comparison all the seeds are from plants from native habitats -

I also enclose you fragments of a Tragia from Butler Co. Kansas for name — Have you a Polymnia with 3 clear white rays? large conspicuous Big Pine Run Wd.

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Rec'd Oct 3rd

Athens Ill. Sept 30th 1870

Dear Engelman

Yours Recd & I send you by to days mail. Specimens of living Cacti as follows

No 1 = a living plant brought from Kansas this fall of the Species in question

O. Cymochila

No 2 what I believe to be a cultivated representative of the same thing - my brother got it from Michael, I believe a florist or nursery man of your city - but I do not know what name he received with it

O. Rapin

No 3 - is also what I believe to be the same thing - that I have raised here from seed - but where I obtained the seed I do not know it appeared with other seeds from the Rky Mts & may have been somewhere in that region

O. Rapin ?

No 4 is Genuine O Rafinesque cult

O. Rapin

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No 5 – the Same Cult. from Mason Co. Ill – no fr –

No 6 O. fittisi souvienni – from the Plains

No 7 Mamillaria Nuttallii I suppose as the Seeds are black & fitted brought from Kansas this fall

No 8. the Same brought last fall further South & grown therein the Shade

Part of No 7 has the oval purple fruit now matured & hart has appeared to have bloomed freely but there is no fr

No 9 This Jears Seedlings of No 1

No 10 O Missouriensis varied here from Seed brought from the Plains Just like the other there is no mistaking this form of Missouriensis with its peculiar rhombic joints & drooping Spines. Whiter than any I have

The fr of Mamillaria Nuttallii is

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not large as seen here barely one inch when fully expanded pale yellowish green with lance lejulate petals - shining little purple pleiq Echinacea Simpsonii which by the way I did not loose in 62. as you seem to know having 2 plants left & my brother to whom I gave most of what I had has yet near a dozen blooming fine every year as does his mamillbin which mine except Lindleys from his are gone up, - I believe both the Rocky Mts & Kansas plants to be the same but I have none of the former to send you of any size - Glad you let me right on the seed of Echinacea - I suppose I have been to late in my examination and the Euphorbia Zygophilides - is right now - I will send you seeds to last when a little riper

Of that Polymnia - Its emphasides & sow rays shorter than the involucre & whitish - yellow. the Missouri plant has large much longer rays than involucre & quite conspicuous & clept. — but otherwise

the plant much resembles P. Canadensis
The fruit of No 2 I send you is very
much like the fruit of No 1 and gives
a fair representation – probably a little to
long & somewhat less oval
the joints of common flat not
globular. the plant must be
long & well known it is the
prevailing species in all that region
what I took to be O Rotundifolia. being
quite rare I believe I only met
with it at one or 2 localities west
of Mt Scott & not at all northward.
Have you got Mr Vi Vipora?

Respectfully yours

E. Hall

who is the author of
~~Euphorbia~~. Argyrothaemus mercuri-
-aloides?

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Ans Oct 17 '70

Athens Ill. Oct 9th 1870

Dear Engelman

Your 2 last are at hand – The first Opuntia fragilis is genuine fruited last year but I did not see the flower it was in my Brothers garden where it has grown to be large as a hat & 4 inches deep – this year it does not fr. – Yes – the Echinocactus Simpsoni lives since '62 in the open garden no protection & is nearly crowned with a rosette of very pretty purple flo – I suppose I must now believe Andropogon scent to be A argentea or Elliottii but it appears to me very different from the Eastern plant Cuscuta eso 2 You say you return as you have it – well some time when you have leisure – will be in time.

I have refered to Whipple R R Survey & find our plant figured exactly If the Seeds & fr & more joints will be of present interest to you I think I can have some sent you from Bourbon Co Kan I have a nephew living there in whose vicinity the plant grows & I could probably induce him to set them for you I neglected to get

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the Seeds or for this fall was content with a few fruits that mostly died or appeared to be but I believe somewhat gradually becoming restored. If you request I will write him & see what can be done — O Rapinesquii must be quite variable

If you have Opuntia Missouriensis growing lay out a root the size of a Straw on the Surface. (not to be disconnected from the plant however) & See the Darwinian Theory of the origin of new individuals beautifully illustrated — by its soon throwing out Spines & buds at intervals to be followed by new plants — You probably know that his provisional theory of the origin of new individuals claims their existence floating free in the circulating fluids of the parent or parents — & that sexual organs buds & seeds are only the normal or general receptacles — but that by abnormal conditions new individuals may develop from any part of the parent. This phenomena is now ~~transpiring~~ in our grounds here & is very interesting

Respectfully Yours
E. Hale

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Rec'd Nov 2d
Ans ~~April~~ 22

Athens Ill. Oct 30th 1870

Dear Dr Engelmann

Yours of Oct 17 was duly rec'd. The localities in M.O. are for Opuntia Cymochila are I suppose all the South western Counties or a number of them say at any rate Vernon, Cedar & Polk It is the prevailing Species & not rare in all that region. From Kansas through Bourbon in to Butler &c &c There is no Quercus Leana here - you probably read in the Entomologist & Botanist of your city an account of a hybrid Quercus Alba-macrocarpa - growing here from which you have become so impressed - The nearest I have found here to Q Leana was toothed leaves on Q imbricaria - a young vigorous shoot of that Specie - I have however good Specimens of Q Leana in herb & do not doubt its existence - I believe I sent you my last years article on the flora of Eastern Kansas in which if you recollect I stated that Q alba was not met with & a doubt expressed if it entered the State at any Point - A friend there to whom I sent the article - claimed to have

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found a "patch" or "bunch" of genuine white oaks in Jefferson Co. I asked him for specimens of the leaves to establish the fact & he now sends me the enclosed leaves one of which I enclose you for your opinion — he is no botanist but claims to know white oak trees and of course has judged it from general appearance probably the bark chiefly all the leaves he sends are just the same. the lower leaf surface agrees well with Q Douglasii but the upper is lacking the roughness of that sp. which however may be from age — is it not possible that this is a link connecting the suspected too closely related Q alba & Douglasii the leaf form is peculiar but this alone if not permanent is not of much importance. Nothing without fruit could be certainly said of it. it may with the fruit prove to be only a form of Q obtusiloba — but then that tree being so abundant there I can not think my friend could have mistaken this for any form of it. I enclose seeds of Euphorbia you wanted to cultivate & photo — will you send me your in-
ex?

Yours

E Hall

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Ans? April 29th
Ans. 30

Athens Ill April 26th 1871

Dear Dr

Yours of 22 Recd to day & I have put you up & send by mail the hybrid! Quercus Alba-macrocarpa or is not then a genuine Q. olivaeformis of Mich. my impression is that it is a hybrid the bark of the tree clearly showing white oak blood as well as the leaves. The tree is young probably about 30 years old & fruits copiously is now in full flower —

I also send you the toothed leaves of Q. imbricaria all from young sprouts from a small tree that had been cut a few years ago. Also a lot of Q. Prinos var. humilis collected

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and Canada in 1869 from
shrubs a foot high to lofty trees
one flowering specimen probably
from some precocious or abnormal
autumnal development it is much
more variable than you see it
from the specimens especially
in leaf that are sometimes
almost obovate & nearly entire
should be glad to help you
out in your garden
but I suppose it is now
too late for this season
I am nearly ready to be
off west again this season
expect to leave Springfield
Ill on the 4th of May
If you write me before I go
direct to me there – Cant tell
get just what I am after
now I am nearly 49 years of
age and still a bachelor and

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have now a little laid up for a rainy day and think of trying a new mode of life and shall be looking for a last location & permanent home probably in Oregon — but cannot tell till I see it & test its climate — but I may find nothing better for this year than plant collecting & if so shall collect a few sets for sale — I shall want to do something to help out in expenses if I see a chance

Yes I have Q Leana ~~Sha~~ called & several other hybrids a remarkable graft hybrid has been in existence here but is now destroyed of Q. alba & tinctoria the remains clearly show the hybridism

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It is certainly remarkable that a new Pino should turn up in S. Carolina — having escaped Michaux & Nuttall. It must be very local. Cant you get zealous friend on the hunt for Shortia?

Respectfully Yours
E. Hale

All the Kansas Opuntias are hardy here. ~~Echinocactus~~ Mamillaria Nuttalli ripens seeds in the spring from last season's flower.

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Received
Ans — 7

Patrick Shaw
92 Sc

Silverton Oregon
June 21st 1871

Dear Engelmann
I am here & enclose
you 3 several species
of Cactus thinking you
may be for determination
The Cactus stem is remarkable
for having its fruit on long
peduncles replaced & buried
in the ground. it is terrestrial
The Yucca is very common
here, also terrestrial even on
moist bottoms but not on
dry ground. The Juniper
is also rather common. There
seems to be 2 varieties one
with single heads larger cap
fruit. The other 1 to 3 heads
cap shorter thick leaves

shall be glad to get your determination of the ~~If you will~~ me direct to Portland shall make that head quarters for bettermost

I am making a good collection of about 4 or 5 sets and getting all indigenous plants I find — have you any suggestion to offer? I expect, to keep near the Willamette & Columbia rivers — get to the alpines in aug or end of July

The season is fine for collecting now the rainy weather ended 3 weeks ago but till then had no weather for drying

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Lopera —
Shall be pleased to attend
to any special wants in
town if possible

Yours
E. Hall

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Rec'd Dec 28
Ans Jan 9

Athens Ga. Dec 24th/87

Dear Engelman

Your Rid — am glad to hear from you again. Strange I did not get the letter you sent me at Portland. Probably given out to some other Hall. as I was a stranger there. I feared you had given up botany but am pleased to know you are yet interested — The Oregon grotes then (i.e. Vallalin — I collected it times for several weeks & some of it must be mature it is a dry land or rather a wet land — but not aquatic. Theies growing mostly on low flats but not in water frequently on high banks in springy situations. The 2 forms of the little species seems to be constant what do you make of them. The-

Callitriche I regard as singular from its habit of inserting its fruit in the soil by bending its long pedicels downwards for that purpose what do you call it. Abies Engelmanii (so called by Parry to whom I sent a specimen, which I thought when collected was only a high subalpine form of A. Menziesii grows on the high Cascades at the base of Mt Hood & neighborhood becoming a large tall tree equaling A. grandis in its neighborhood it is one of 3 species in that locality forming the forest growth – the other & the most abundant but smallest tree is Abies Williamsonii so called by Parry – I got only one a centrokicum in pretty good state – both sexes – it grows exclusively on the larger trees of A. grandis very common but I could not get at the bent of it or much of it. I have from Bolander

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the Staminate plant of what may be the same but his grows on Pinus Sabiana besides there I only have A. Campylopodicum Rengelm. from the rocky Mountain on Pinus Contorta - I packed my entire collection of Oregon Plants in one large box & sent it to Cambridge to be distributed there & sold -- not intending to return home till after another seasons collecting on the Pacific but circumstances made it necessary that I should change my plans - The plants are now being distributed by Charles Wright who is in the employ of Dr Gray Prof Sergeant has the mosses at present & will distribute Prof Ackerman takes the Lichens entire. and a small collection of Marine Algae is worked up by Dr. Gray & Prof Farlow collected at Cape Cod weather.

My desire is to return to the Pacific again in a month or two if I can.

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get assurances of sales - sufficient to cover expenses and a trifle over. I am out of business now and want to put my time in exploring & collecting to pay the cost of it for a year or two yet when I shall have to give it up, & do something that pays better for a living. I do not know if the present collection will sell readily. There will be about 12 sets for sale of about 600 species phanerogamous at $5.00 per 100 species. Do you know of any one who would be likely to buy? I shall be glad to get any suggestion from you that will help me in finding a market for them. Anything I can do to help you along in your favorite genera will be done with pleasure.

Yours J. E. Hall

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Rec'd Jan 16
Ans Feb 3

Athens Ill. Jan 15th/1872

Dear Engelman.

Your long & interesting letter is rec'd. many thanks for it — I am sorry that the Conifera in part are so unsatisfactory. The Pinus monticola Abies Williamsonii Abies grandis in part & the A. Engelmanii? Also Pinus Contorta were obtained on an excursion to Mt Hood with a party of Sight Seers & everything had to be done on the run and in the rain at that — it is only those who have had experience in these unscientific excursions that can understand how few facilities are afforded for collecting. I collected the young cones of A. Williamsonii but lost them mostly before I could get them dry by moulding. the young cones of Pinus monticola & Abies Engelmanii were not obtainable being altogether beyond

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my reach and no opportunity to
cut down large trees for them
(and I was obliged to be content)
with what I could get. Pernis Contorta
was collected from the Cascades where
it is found fruiting on bushes 6 feet high
up to small trees 40 or 50 feet - what
I take to be the same species occurs on
the Coast fruiting abundantly on
spreading shrubs 1 or 2 feet high:
but up there also to 20 feet - I
suspect now there may be a variety
of it & P. mucronata may scarcely be
different but I have not seen that
species growing unless I have
confounded it with this. I suppose
you also have the junipers from Mt
Hood the fruiting species spreads widely
over the earth & roots & rooting - never
getting over 6 inches up. It seems to
me impossible for this to be the
common juniper of the north & the
Rocky Mountains. Pinus monticola

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gets the highest on the Hood of any tree
Abies Williamsoni following next after
the former creeps along the ravines
or steals out to edge of huge rocks
where protection is afforded from the
fierce sweep of the west winds that
shave these tops like a mower
scythe would a hedge cutting every
sprig & leaf that ventures above the surface
On the first day of August the male
aments were in bloom but no cones
develop here.
The arcuthopiums were collected at
twice once in July & again in Sept
They grow high up on the great trees
of A. grandis. The trees were being
felled in bottoms of the Willamette
The first collecting was too young. I waited
for maturity but on the last trip
could get little few trees having been
freshly cut. the species is by no means
rare every old tree in that locality having
more or less of it. Thanks for the correct
name of the Ar. by the way. I have corrected it in

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the Seeds from A. Canadensis Engl.
I enclose you a bit of female all the Sets
I have of Bolander's Plant on Pinus
Sabiana. hope you can give me the
name of it. The locality for the Oregon
Spe. is Willamette Valley Salem Oregon
on Picea Grandis, Common
The Rocky Mountain Sp. – Lake Franch
near Estes Park Colorado on
~~Pin~~ Pinus Contorta – not Common
The Isoetes Nuttallii is plentiful in low
localities in open places in the Willamette
valley also on Springy banks of Creeks
Dr Gray writes me that he has found an
Isopyrum Hallii & Viola Hallii and so
it seems there will be a few novelties after
all. I wish I could afford to offer you
a Set gratis but on account of the
great expense of making the exploration
and having them distributed it becomes
necessary to hold them for Sale to defray
in part (not half) the expense – I yet think
of going again this Season but by the
advice of Dr Gray shall probably make Texas
the field of operation – What do you

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Rec'd Jan 6. 1872

2

think of that region as a place for making Salvable Sets — it seems by operating in Southern California I should come in competition with Bolander & Kellogg who have already plants at Cambridge (undistributed however) for sale. If I go I shall devote a portion of my time to Seeds & roots for the garden Can you make any suggestions favorable to this enterprise I am out of business now and want to follow my favorite pursuit for a while if I can make it pay expenses

If I go to Texas I shall want to get off by the middle of next month so as to be in time for Mosses & Lichens

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And be ready for the Spring flora
that I suppose must be
ready in March
I shall go by St Louis if I
go there – Could you tell me
if there is any regular lines of
travel to Galveston – from
St Louis and about the time
necessary to reach that city
or would the Kansas City &
Gulf Rail Road carry me far
enough to make it advisable to
take that route?

Respectfully yours

E Hall

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Rec'd Feb 18
Ans — 24

Athens Ill. Feb 14th 1872

Dear Engelmann

Your Rec'd — about collecting in Texas Dr Gray says it is a good field from East to South West All young botanists & many old ones will go for the sets — I have no intention of venturing on dangerous ground — I mean from Indian — well. I suppose the Oregon sets will be in the main without exact habitat I asked Dr Gray for a numbered list so that if he published I could give the habitats but he said by the time he could do so it would be too late: I can give the exact station of every species at any time — but unless they are published at some time — or tickets printed for them their will not be practicable which if they are sold may be deemed advisable If I have the good fortune to make another collection this — [illegible]

I think now I shall set off about the 26th inst. and it may be I shall go by Cairo I have some business at Champaign that I shall perhaps have to see to when I start or before & shall probably take Champaign in my route. If vessels from New Orleans to Galveston have stated times of sailing or if from St Louis to Galveston there is a regular line or boat I should be greatly obliged if you will find out & let me know if you can do so without much inconvenience and any suggestions you may think it advisable to make — shall be very glad to have — we always have some thing to learn —

Abies grandis is all from Mt Hood or the neighborhood of it. all in shade of forest & ~~most of the~~ all the split branches the longer branches entire are from the valley. All the Pinus Pondosa are from the Cascades a part from Mt

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hood & the balance from lower ground on
small bushes such as could be reached by the
hand - the branches of P. monticola? were
collected in part from the last growth
of trees on Mt Hood & part from the
lower limbs of the same trees that bore
the cones - the Hood specimen bore
no cones they are easily distinguished
by the shorter limbs densely fascicled
shorter leaves and in staminate
flower at least in part - but all
the difference is accounted for by the
station as I supposed the same Abies
Williamsonii that grows with it below
follows it up to near the last
~~Pinus~~ Contorta; occurs on the coast abund-
-antly - but not in the valley - there
ranging from a foot to 30 feet high all
full of cones the very smallest I collected
none of this. I suspect this may be P.
murricata or something like it - A.
~~Williamsonii~~ occurs on the coast
but not in the valley, the Jeffreyi

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from Mt Hood is not P. Sabine — but a prostrate form of P. Engelmanni var alpina? — The Mt Hood P. montana grows as high as the rocks will shelter it from the west winds 10 to 30 feet I suppose getting lower to 3 or 4 feet on its last station. Yes I consider now all the above grandis the same. That I saw. I at first took the Mt Hood tree to be different but after comparing the cones & leaves of the valley specimens with them I could see no difference. I failed to find P. amicalis though I suppose it occurs near where I was it is perhaps local or a little further south. Mt Hood is now reported to be in eruption — I recognise Potamogeton pulcher in my herb from Mason Co Ill collected in 1860 — Just now it is very distinct

Yours truly E. Hall.

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Recd April 1st 1872
Ans — 23

Near Houston Texas March 25

Dear Engelmann

I am here - did not get lower down - was so prostrated with the change of climate or weather or something else that on reaching Galveston I decided to go to the interior but my health though better is not good now and I have concluded to go no further South - Shall probably remain here a couple of weeks yet & then go to Austin and probably make that my head quarters for the season - if you have occasion to write me direct there - there is little here to get - this whole county lies out of enclosures & is entirely consumed by Stock - I am getting something but not much - The arborescent Yucca is a common

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Yucca aloifolia

Garden plant in Houston - I have begged some seeds and enclose them. It seems to me to be the Y. aloëifolia of the S States also it commonly occurs here 10 to 12 feet the lower 2/3 naked the upper 1/3 clothed with leaves deflexed below erect above and is surmounted by a large oval oblong panicle of fls. now in bloom for fleshy with a copious purple pulp rather pleasant but with a bitterish taste, a form of Y. angustifolia? I have also found here in the woods not in fl. — This tree Yucca very probably will prove hardy with us as the Osage orange and some other Texas plants do & will be a splendid thing for grounds I find Y. angustifolia perfectly so since 1863 at Athens

Yours E Hall

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Ans May 7th 1872
Ans Soon My

Hempstead Texas April 28

Dear Engelmann

I stopped here & sent to Austin for my letters and received more from you perhaps by now. Write me if I have fallen in to other hands there being so many Wells unless my full first name Ephraim is written I do not always get them where I am not known. I write you to send you more of the seeds that has turned up here in several pony pieces. It cannot no longer be regarded as a rare plant or as belonging to pine woods for there still are on pines. A prairie here and in mixture, well upwood I think I shall send some black lit. melanopoda & wise doubt less

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And on the third morning
comes I fear I shall not
get to see Lindheimer at
all. Cowles almost expires
made a flag staff for the house
I hope so much baggage
perhaps that I am unable to
get around where there are
no practicable roads. Besides there
is all I can do in the woods
in making a collection of
the Sets. If you write
once or twice yet they will reach
Dr Sartain perhaps in a
month I expect to be at
the house. Yours
Yours truly
Wislizenus

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Rec May 23
Ans same day

Austin May 18th 1872

Dear Engelmann Your
April 7th (May 7) is rec'd here
but your first one not yet
The Isoetes can hardly be quite
melanopoda the Cyr & Spore-
cases being different if not the
spores — but we will see when
they are compared — I have been
here nearly 2 weeks — but am
going no further west — I
must give up seeing
Leidheimer there is no
rail convenience & I have too
many traps to go by stage
besides Fog writes me that
I am right on the track of
all the explorers & must get
east & north of the Brazos high
up I shall make Hempstead
head quarters for letters from the

date I have made the acquaintance of Prof Buckley he lives 2 miles from town a fine little old gentleman with a young wife & happy I dare say & may be his botany is a little rusty just now having gone into Geology of late I have looked up all the Cacti of Texas or this region at least so I suppose as I find 2 more than Buckley knew of — I send you specimens to day by mail of all, but Yucca angustifolia. There are 3 Yuccas the broadest leaves are in fls now on scapes from the ground 8 to 10 feet the long slender leaves I could not find in fl. You will see by the lvs used as wrappers that they are removable by feet! it grows on rocky banks in the shade of woods & is common at Mr.

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Rec May 23 1872

One Cocoite but no finter
ones could be had — hope you
can grow them
Of the Cacti there are 2 opuntias
if not 3 & 3 globular & oblong
species & one very bushy branching
slender sp growing 3 or 4 feet
high Mamillaria vivipara I do
not send you — the globular
sp with 1 rosette of spines received
on a rib grows under ground
except top. The other 2 grow
more out of the ground one has
very large purple fls the other
yellowish green & smaller. The
bushy sp small yellowish green
not yet quite in bloom — now
at the risk of duplicating
what you already have I
send you these knowing that
you are specially interested in
these families — hope you
will have success with
them

The fall grow on the
Rocky hill, around the
city. There is one Massilia
[illegible] the Rivers creeks &
what little crested field
Pamphella is the envelopes
bearing it, for in the mud
Slow Streams here - very small,
& fine leaved. - The weather
is cloudy & rainy & my
work is much impeded
for want of Sun to dry papers

Yours truly

P. Hall.

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Received June 15 1872

I have occasion to write me again direct to Hampton Va. I may get it there in more or less words. Do you know for the 15th of July mail is brief

Hempstead Texas June 9th

Dear Engelman — I have your 2 lots directed here. Saturday I sent you by mail another package containing what make 2 forms of I. augustifolia a plant of the cultivated Yucca alveifolia? & 3 specimens of an agave, or something I am now out of the region of Yuccas & Cacti except I. augustifolia. I send also a few capsules to show you that they are constricted in the middle sometimes but not always. Dr Gray's advice to collect earlier, will I fear prove most unfortunate for the sets. There is scarcely anything here peculiar to Texas. The Texas flora proper commences further west, the region of the Colorado having a quite distinct type. I regret now that I did not remain out there

Here I am only getting Southern
States species mostly being in the
Swamp region among the Rhynchospo
ra pipe stems & utriculaias
only that the season is so far
gone I should go back to & beyond
the Colorado. but now only the
autumn plants remain to be
collected & they are not yet ready and
there are comparatively few of them
I expect to go to Houston this week
where I may collect a week or two
& then box up & ship home & then
go north as far as I can get by
rail & see what there is there yet
to be had & probably be in St Louis
by the 10th of Aug think of reaching
the terminus of the Kansas City Ft
Scott & Gulf RR. if there is not
too much staging but if not go
down Red River. the weather is
becoming intolerable in the sun there
is no such thing as working in it

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in their respect being different from our
temperatures where there is comparatively
little difference between Sun & Shade
Here the Shade is always pleasant the
Shadow of a Cloud passing or the Shade
of a tree making an apparent differ-
ence of temperature that we know nothing of
in the north the evenings & nights are
pleasant So far & Sleep except from
the annoyance of Musquetos can be
enjoyed. Bors are essential - your
letter of the 1st of April I rec'd at Auction
happening to see an advertised list I found
it with them & several others Cost. they
seem to not give out them without being
specially called for as such
Prof Buckly writes me to ask you at
what date you described the mustang
grape as V. Candicans he seems to
claim the priority having published it
as V. mustangensis Buckly - Sometime
since the date I do not know the
'Post oak grape' is Shrubende also by
here I suppose V. Texicanus

MISS M. B. DANICKE GARDEN
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little can be told of these grapes from dried specimens. Certainly in this family some regard must be had to constitutional & vegetative characters as for instance with what you call: aestivalis in bloom here the 20th of May whilst at Allens Gll a variety of the same be in young fruit at the same date & then the fruit. & should these all be set aside because the seeds are similar. and in Illinois one variety ripe in July & another blooming later & ripening smaller more acid for in September - the same - & at the same time dropping as much as need be in vine leaf mode of growth &c. Prof Buckley is getting from all parts of the country native specimens & growing them out for test. Started now most with cuttings. I have also planted the seeds from the east & have roots from the west. now coming to bearing & I intend to further experiment & see if there be no constancy with Vitis